Figure 1 HotMedia  System Architecture
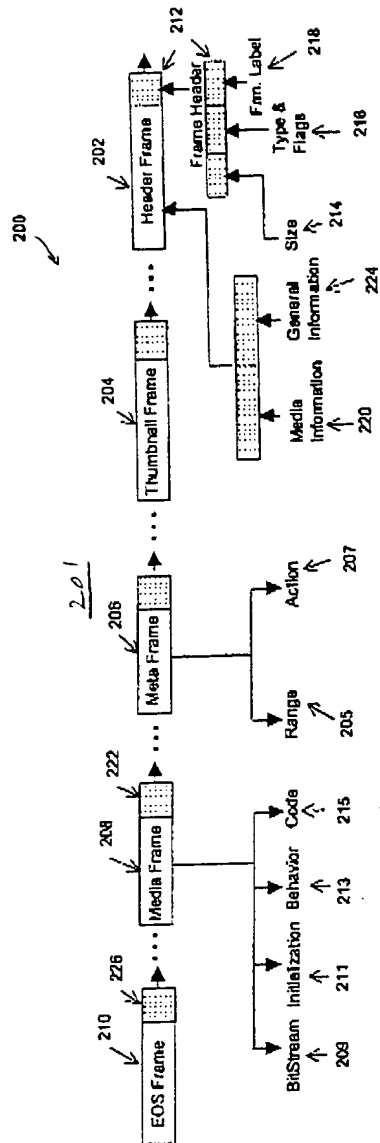
Figure 2 HotMedia File Format
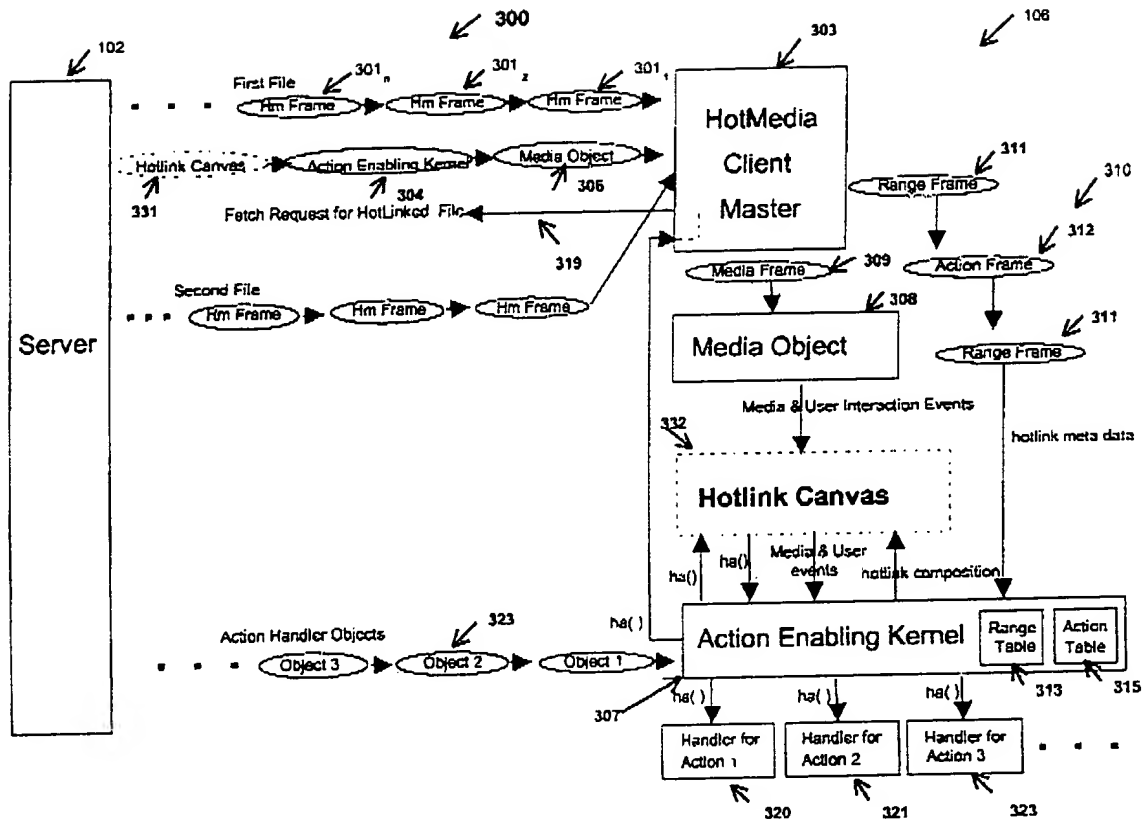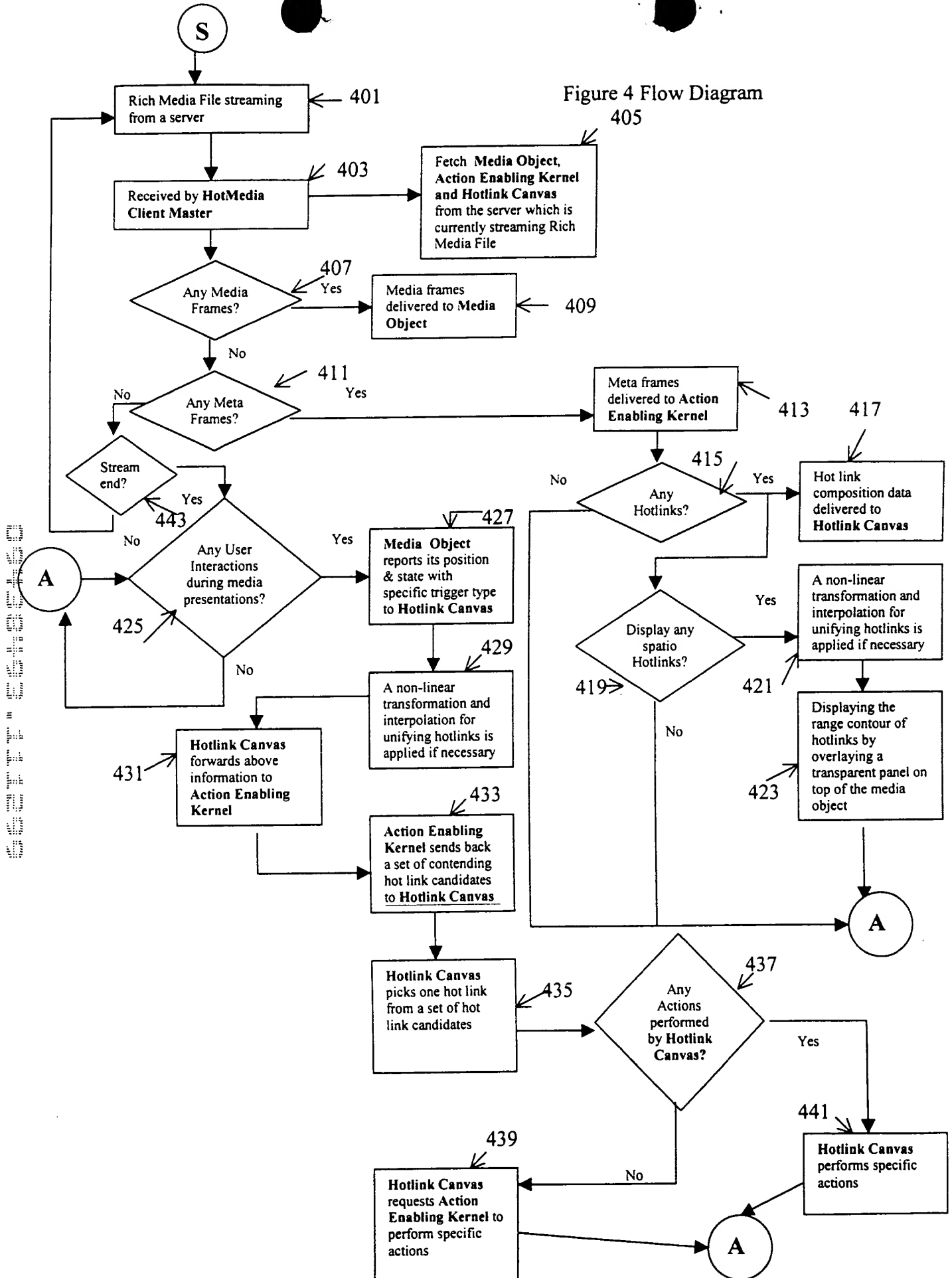
Figure 3 Hotlink Canvas Schematic

Figure 4 Flow Diagram

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Rich Media File streaming from a server — 401

Received by HotMedia Client Master — 403

Fetch Media Object, Action Enabling Kernel and Hotlink Canvas from the server which is currently streaming Rich Media File — 405

Any Media Frames? — 407    Yes → Media frames delivered to Media Object — 409

No

Any Meta Frames? — 411    Yes → Meta frames delivered to Action Enabling Kernel — 413

No

Stream end? — 443    Yes

No

Any User Interactions during media presentations? — 425    Yes → Media Object reports its position & state with specific trigger type to Hotlink Canvas — 427

No

A non-linear transformation and interpolation for unifying hotlinks is applied if necessary — 429

Hotlink Canvas forwards above information to Action Enabling Kernel — 431

Action Enabling Kernel sends back a set of contending hot link candidates to Hotlink Canvas — 433

Hotlink Canvas picks one hot link from a set of hot link candidates — 435

Any Actions performed by Hotlink Canvas? — 437    Yes → Hotlink Canvas performs specific actions — 441

No → Hotlink Canvas requests Action Enabling Kernel to perform specific actions — 439

Any Hotlinks? — 415    Yes → Hot link composition data delivered to Hotlink Canvas — 417

No

Display any spatio Hotlinks? — 419    Yes → A non-linear transformation and interpolation for unifying hotlinks is applied if necessary — 421

No

Displaying the range contour of hotlinks by overlaying a transparent panel on top of the media object — 423
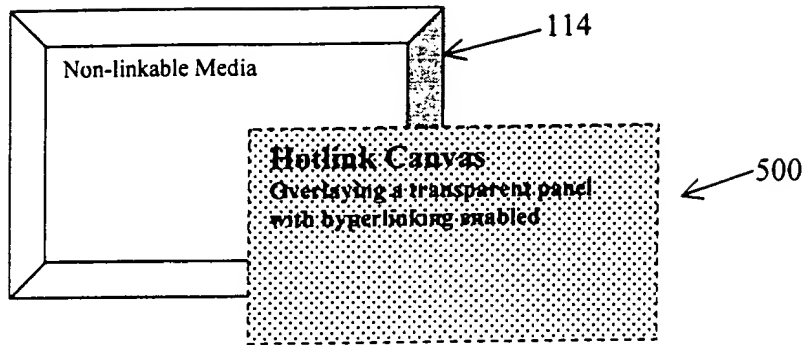
A

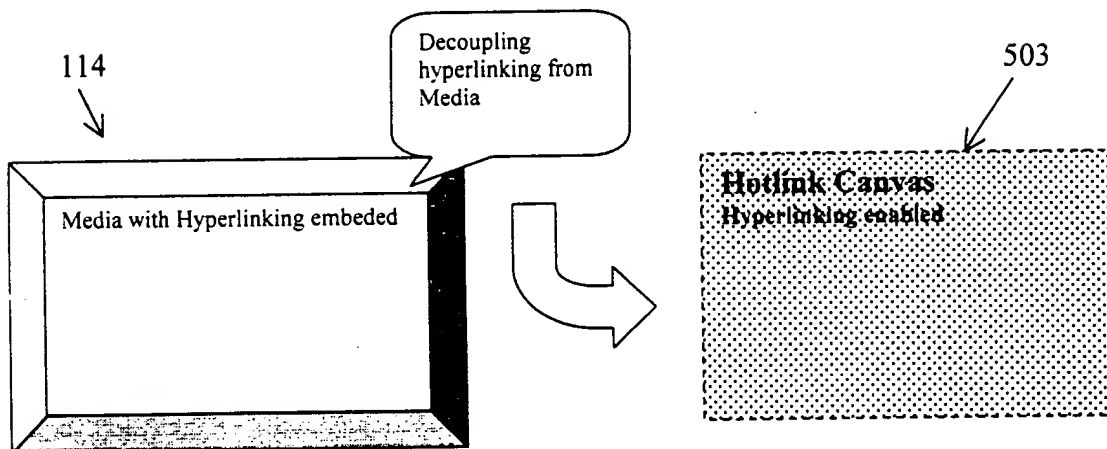Figure 5A Overlaying Hotlink Canvas on non-linkable media



Figure 5B Decoupling hyperlinking from media to Hotlink Canvas